

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10004 - L2 Version 2  
Chandra X-Ray Center

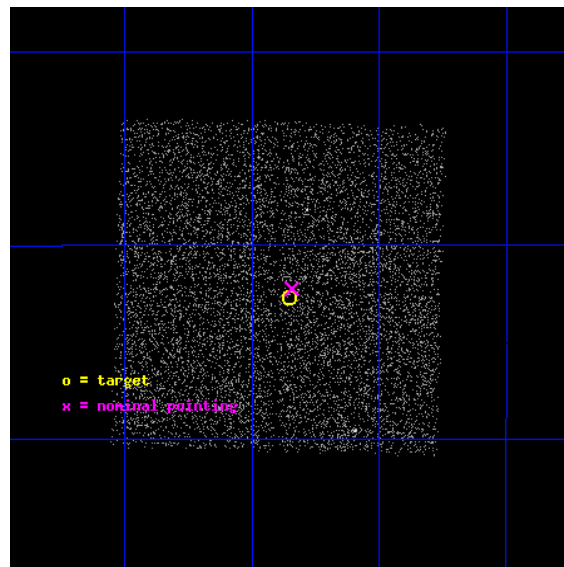
L2 Processing Date : Jun 1 2012

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# 1 Front

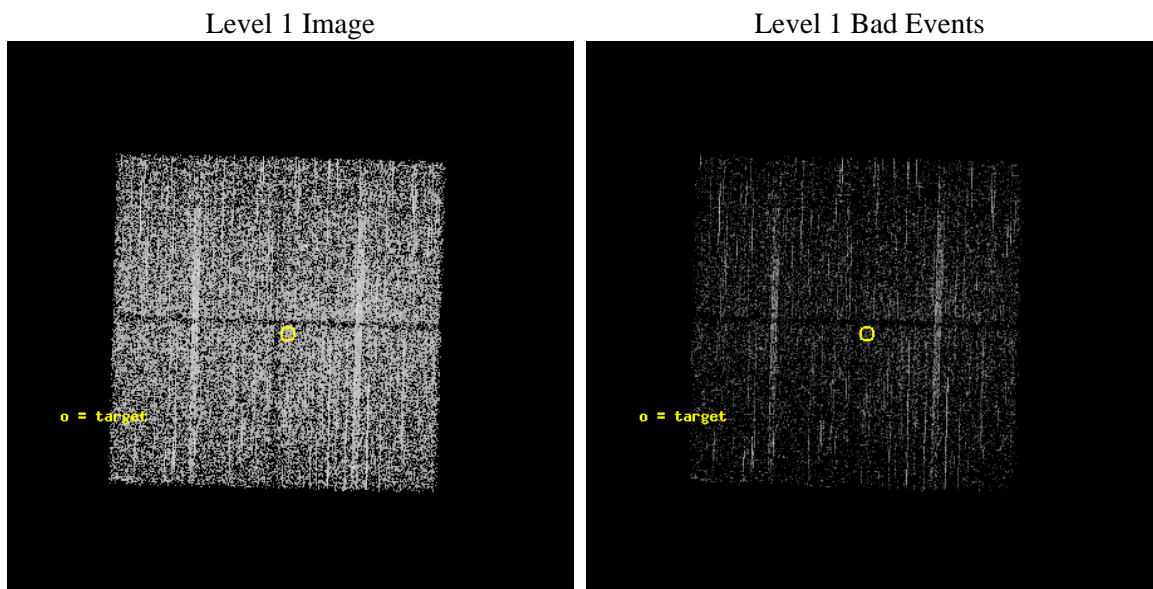
seq_num	400968	Sequence number
obs_id	10004	Observation id
title	Completing the Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS5-10	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.963792	Observer's specified target RA [deg]
dec_targ	-27.378528	Observer's specified target Dec [deg]
ra_nom	264.96091408236	Nominal RA [deg]
dec_nom	-27.370744588861	Nominal Dec [deg]
roll_nom	91.507550017387	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2179.3000167608	Sum of GTIs [s]
livetime	2150.8258576645	Livetime [s]
ontime0	2179.3000167608	Sum of GTIs [s]
ontime1	2179.3000167608	Sum of GTIs [s]
ontime2	2179.3000167608	Sum of GTIs [s]
ontime3	2179.3000167608	Sum of GTIs [s]
l2events	10555	Number of level 2 events



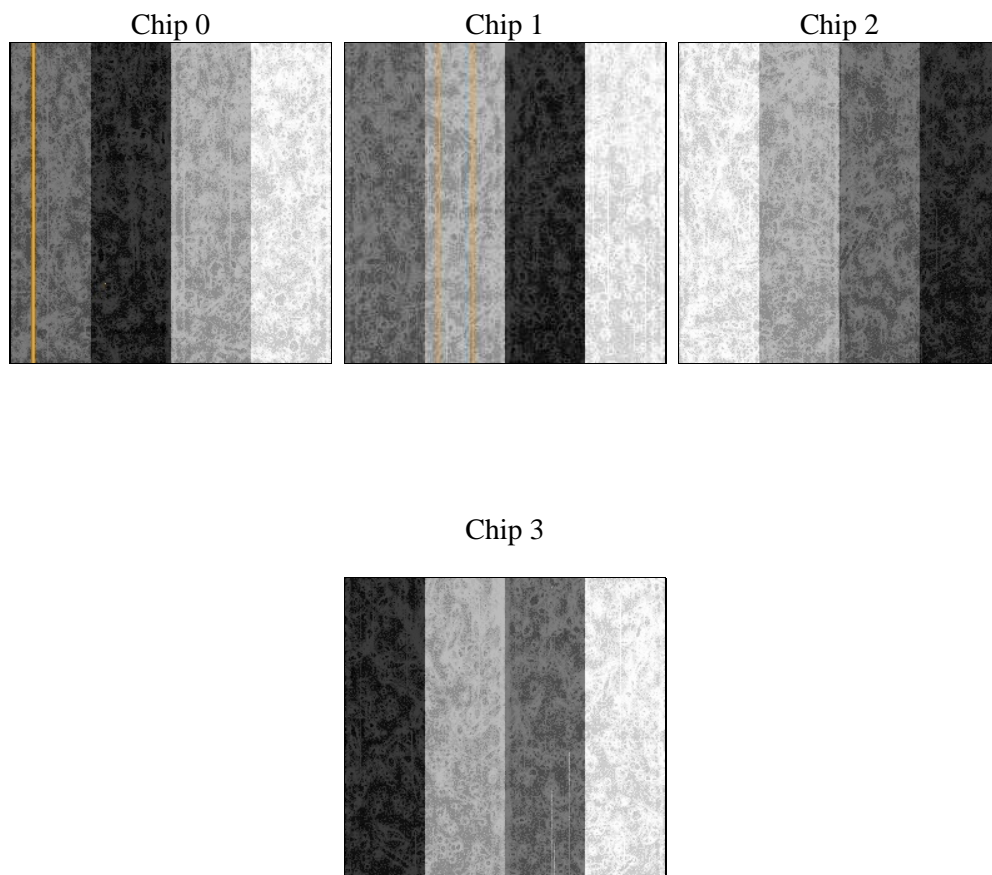
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2179.3000167608	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2179.3000167608	Sum of GTIs [s]
date	2012-06-01T06:03:28	Date and time of file creation	ontime1	2179.3000167608	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2179.3000167608	Sum of GTIs [s]
			ontime3	2179.3000167608	Sum of GTIs [s]
			l1events	101105	Number of level 1 events

### 2.1.4 Events

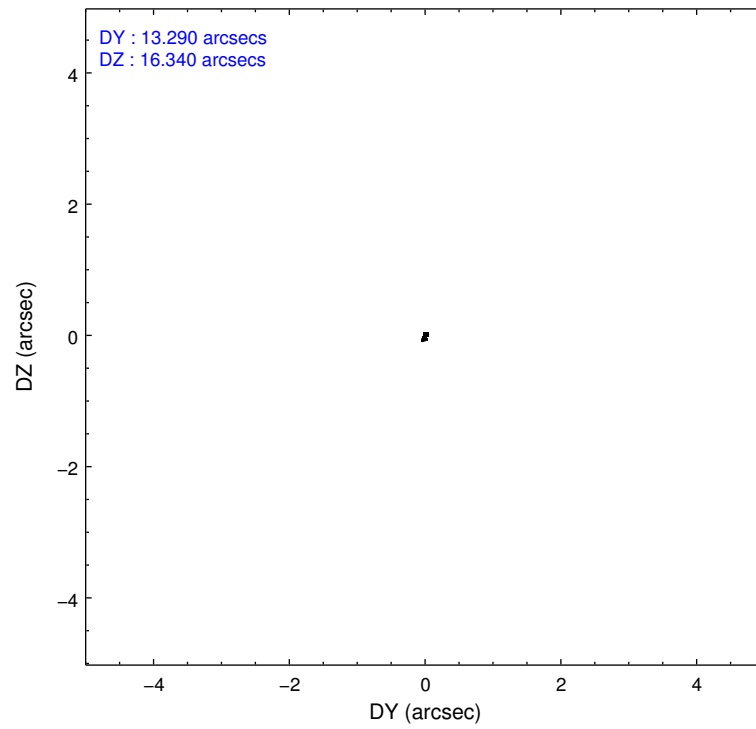
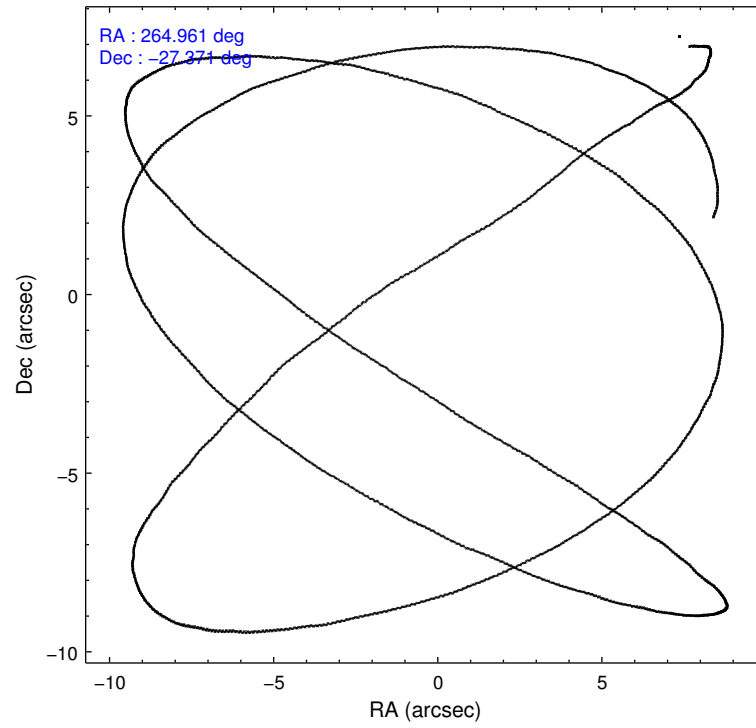
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	25300	23291	26543	25971
rejected events	22280	20200	23471	22957
rejected %	88%	86%	88%	88%

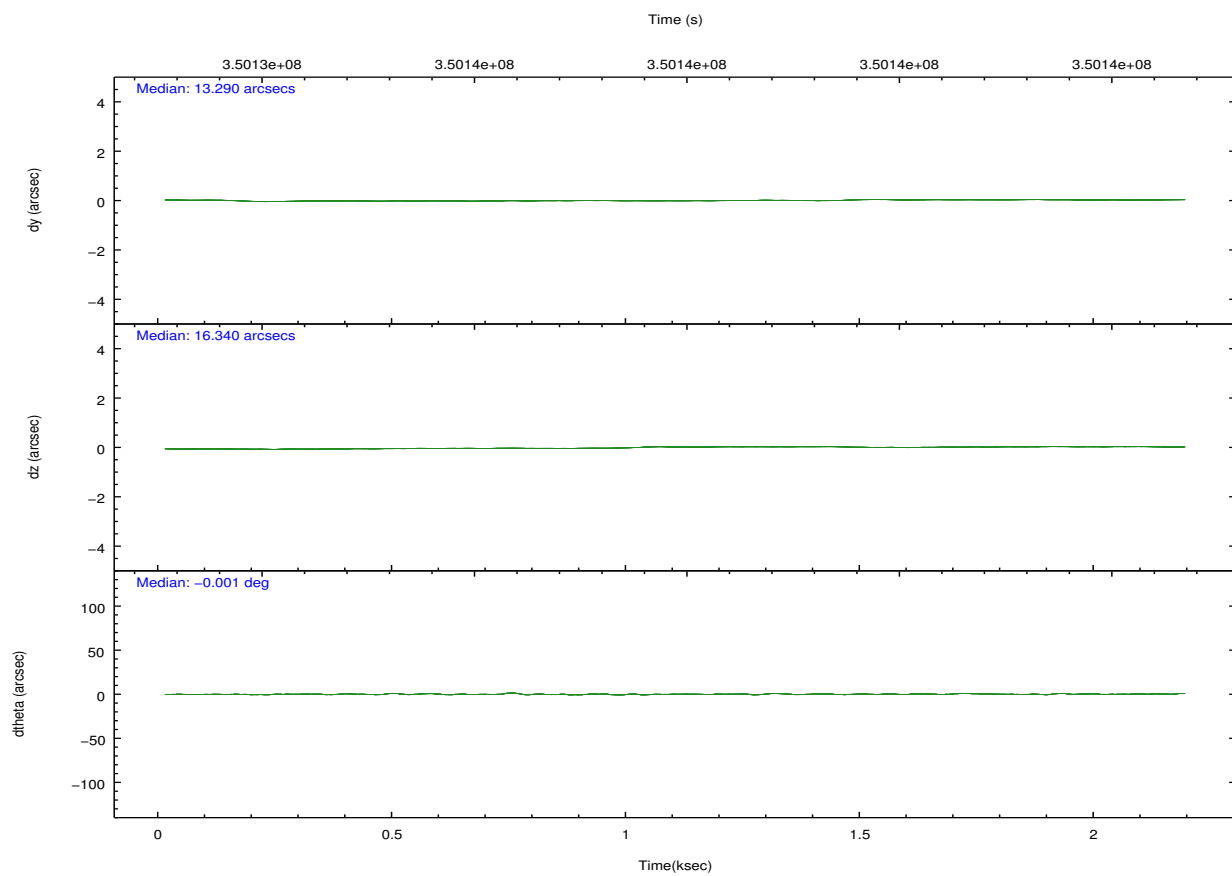
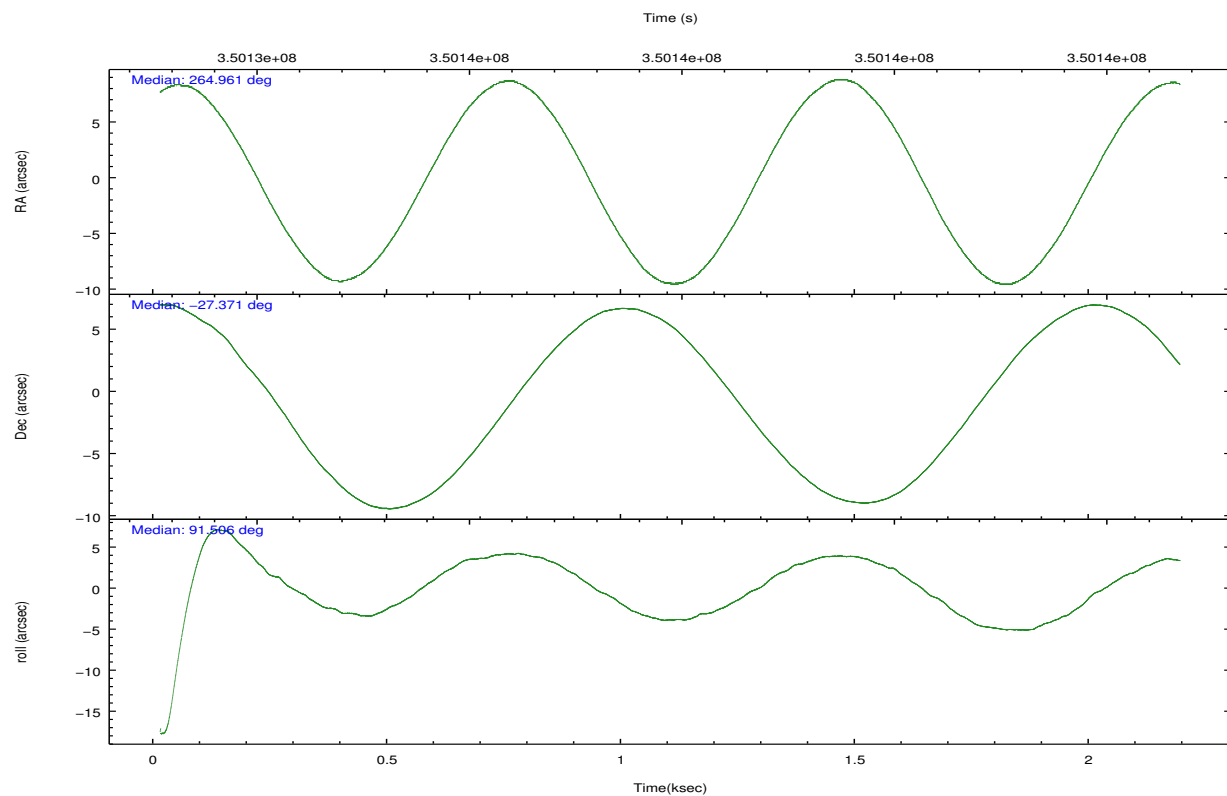
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1605	1417	1684	1570
	6%	6%	6%	6%
grade 1 events	15	11	22	23
	0%	0%	0%	0%
grade 2 events	732	804	706	691
	2%	3%	2%	2%
grade 3 events	316	346	286	308
	1%	1%	1%	1%
grade 4 events	283	329	288	309
	1%	1%	1%	1%
grade 5 events	1031	1118	1099	1184
	4%	4%	4%	4%
grade 6 events	542	670	563	578
	2%	2%	2%	2%
grade 7 events	20776	18596	21895	21308
	82%	79%	82%	82%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	264.977154	264.9609140823629	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.394260	-27.37074458886137	Alternating exposures requested	N	N
[deg] Pointing Roll	91.306371	91.50755001738669	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	350134564.184000	350134187.83264			
Observation start date	2009-02-04T11:34:58	2009-02-04T11:29:47			
[s] Observation end time (MET)	350136564.184000	350136698.05776			
Observation end date	2009-02-04T12:08:18	2009-02-04T12:11:38			
Read mode	TIMED	TIMED			

## 2.3 Aspect





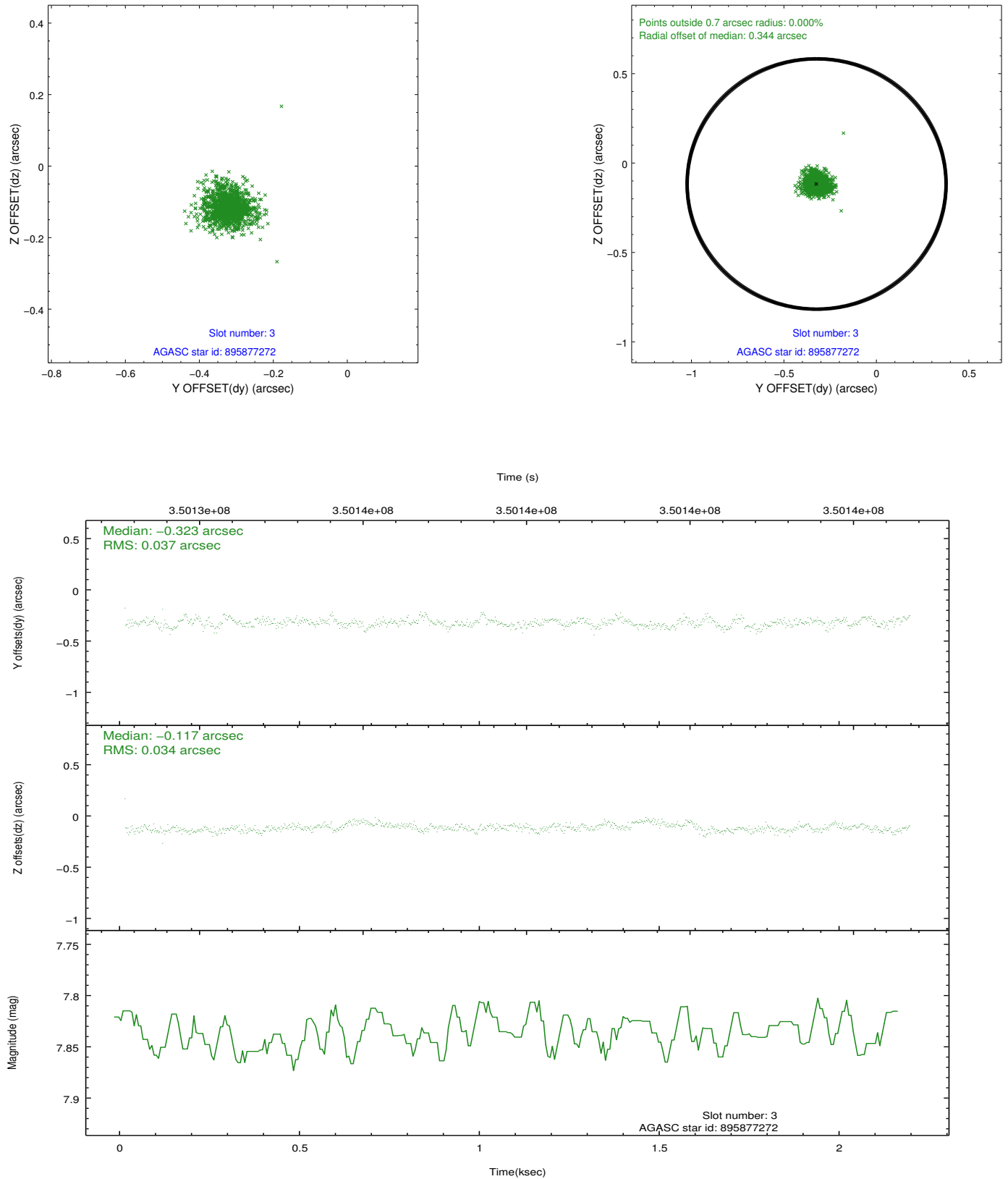
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	532	0.059	-0.035	0.006	0.009	0.000000	0.000000	926.26	-840.01
1	FID	ACIS-I-5	7.00	532	-0.196	0.065	0.005	0.008	0.000000	0.000000	-1820.43	1056.11
2	FID	ACIS-I-6	7.00	532	0.046	0.041	0.006	0.010	0.000000	0.000000	388.57	1703.95
3	GUIDE	895877272	7.84	1065	-0.323	-0.117	0.052	0.086	264.774842	-26.937569	1656.80	611.97
4	GUIDE	895879392	9.12	1062	-0.047	-0.200	0.099	0.160	264.792874	-27.441876	-157.00	593.18
5	GUIDE	895879608	8.95	1064	0.121	0.139	0.099	0.157	265.708239	-27.843915	-1678.42	-2288.66
6	GUIDE	895879840	7.21	1065	-0.046	0.065	0.063	0.096	265.218397	-27.395778	-25.64	-772.36
7	GUIDE	895878608	9.42	1064	0.295	0.108	0.101	0.166	265.191686	-28.030075	-2304.31	-629.80

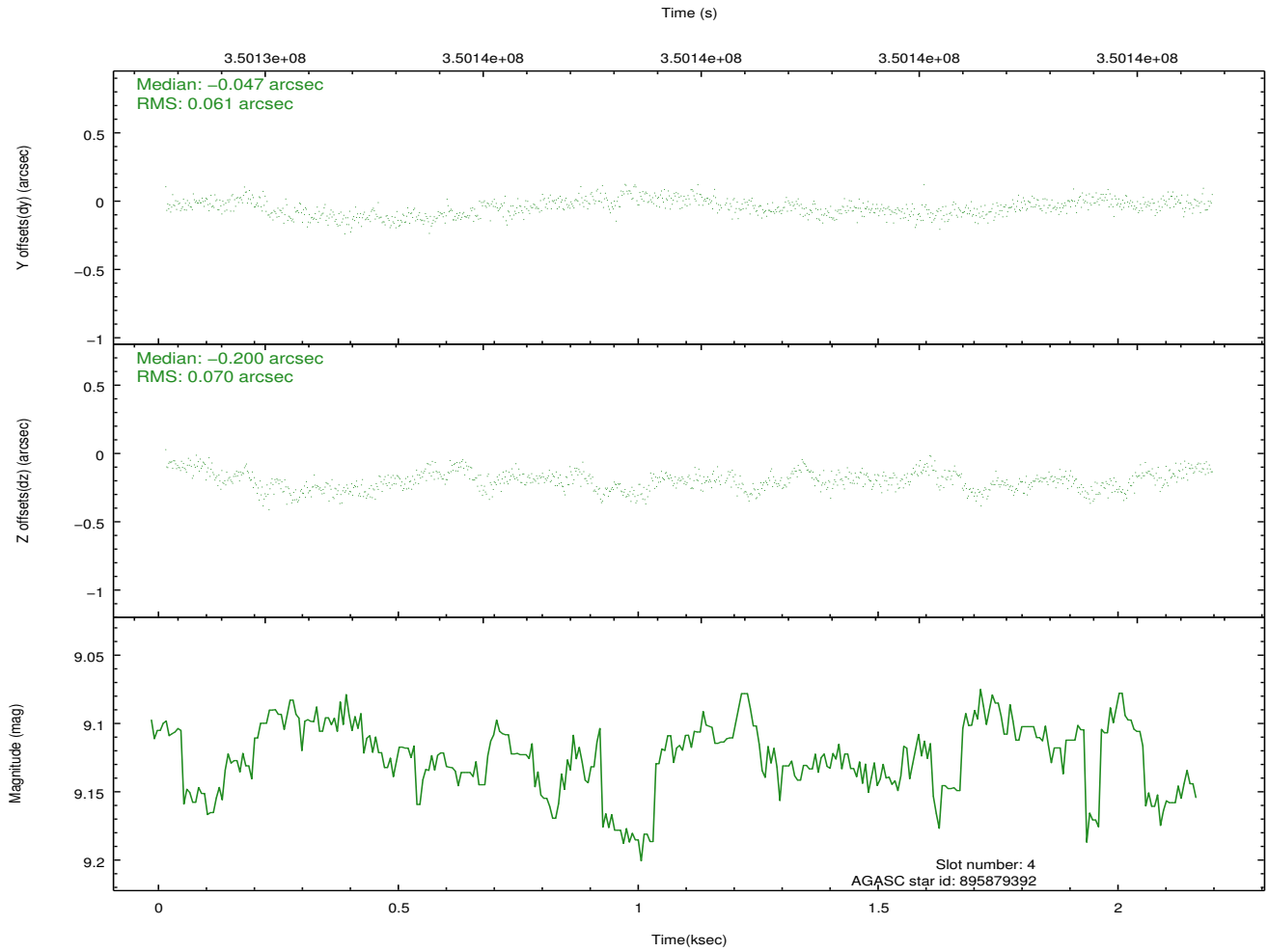
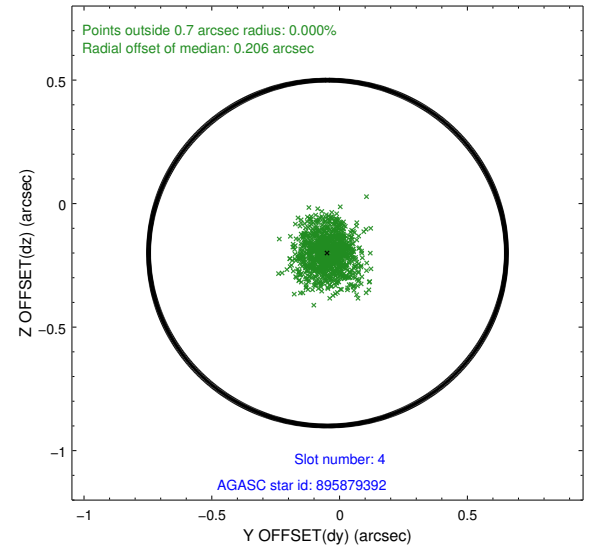
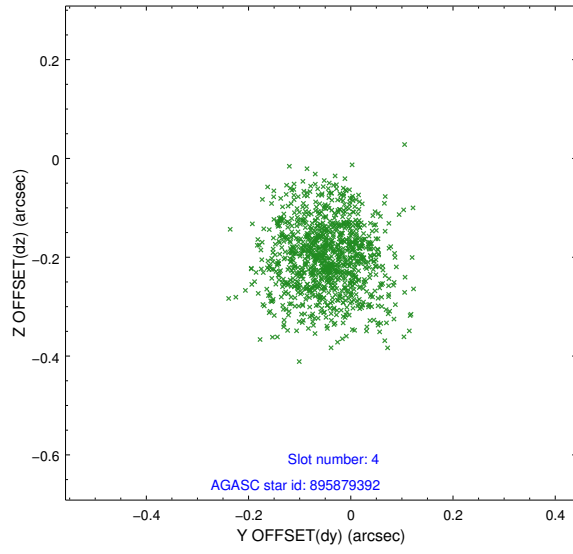


## 2.4 Star Slots

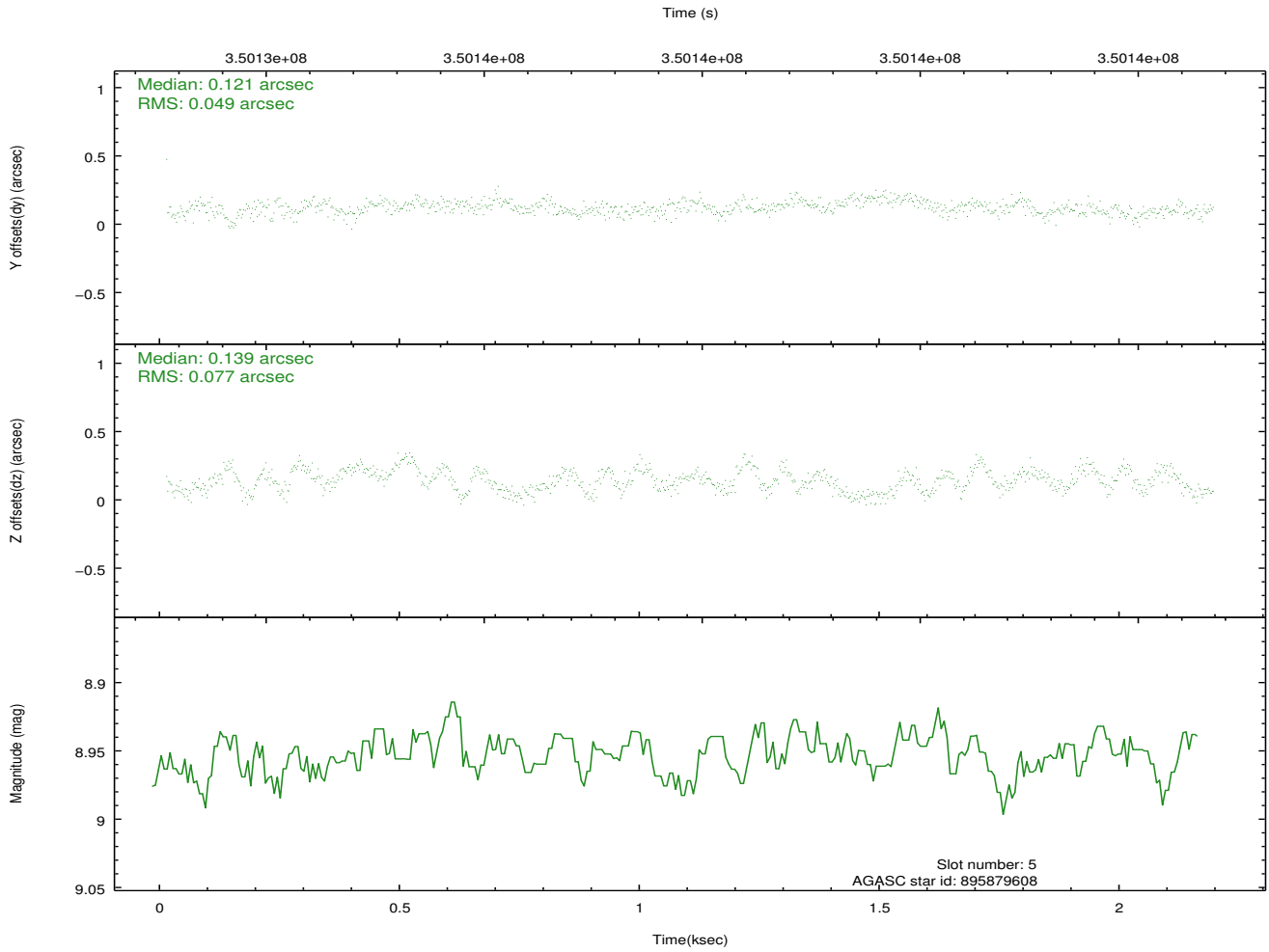
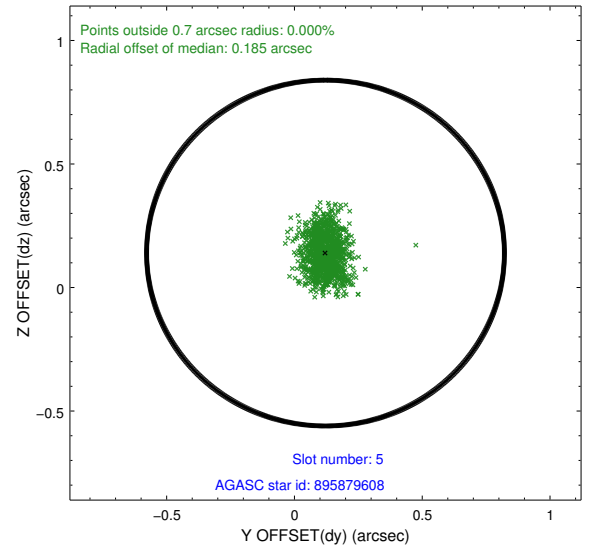
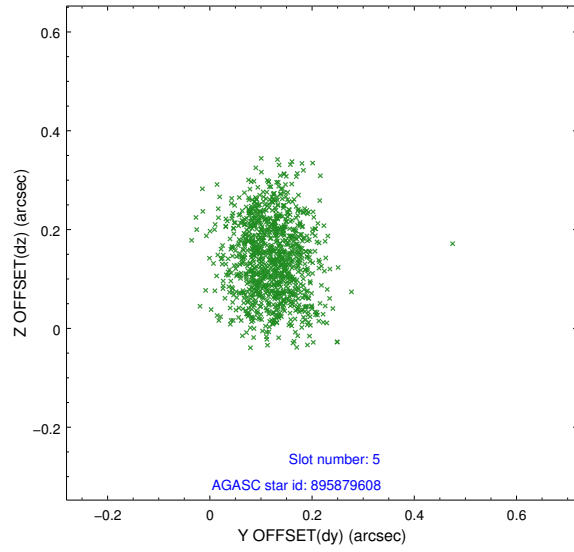
### 2.4.1 Slot 3



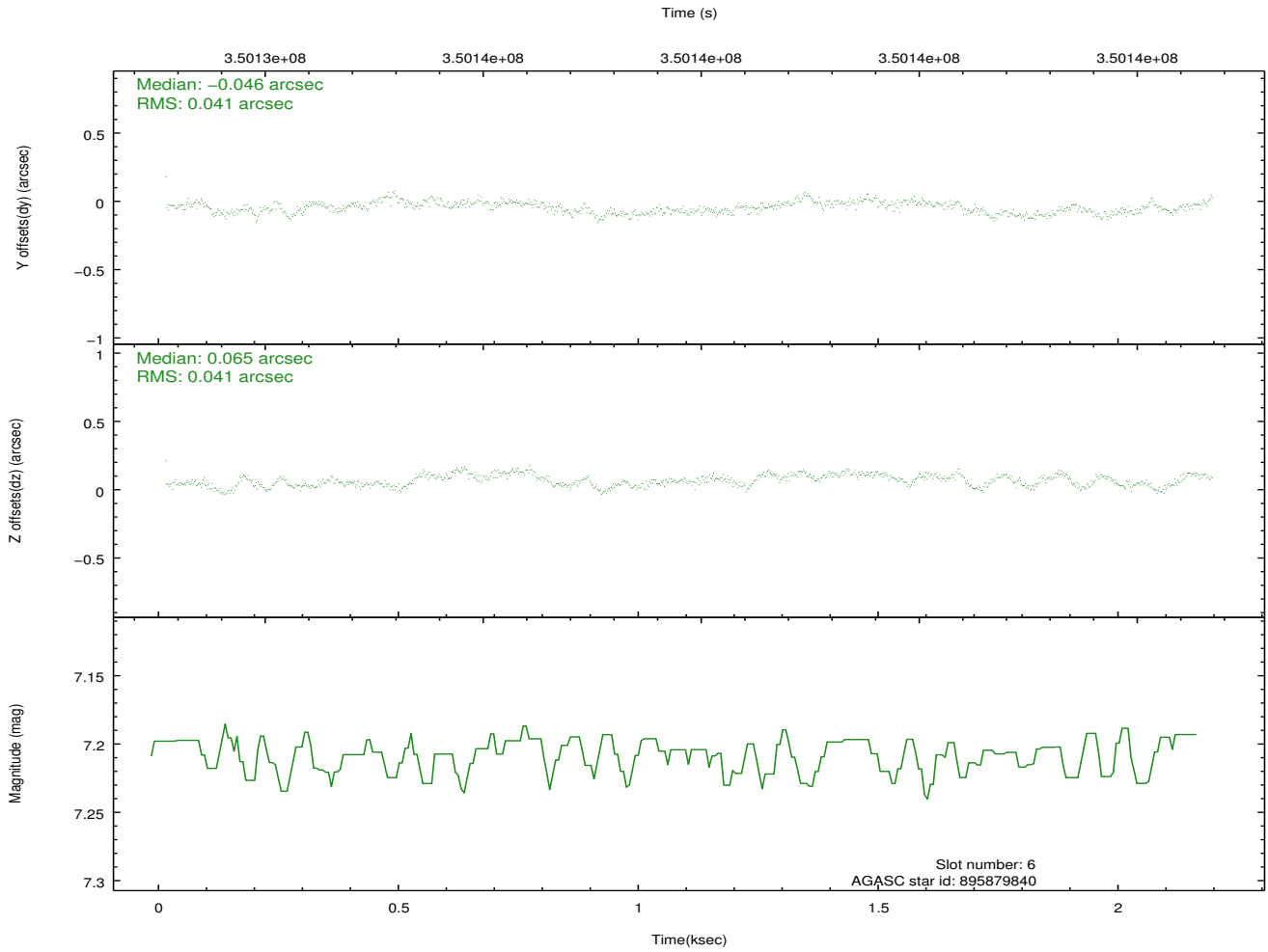
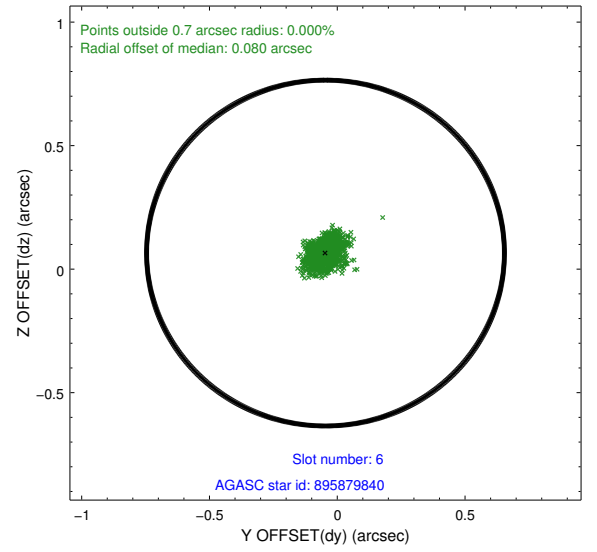
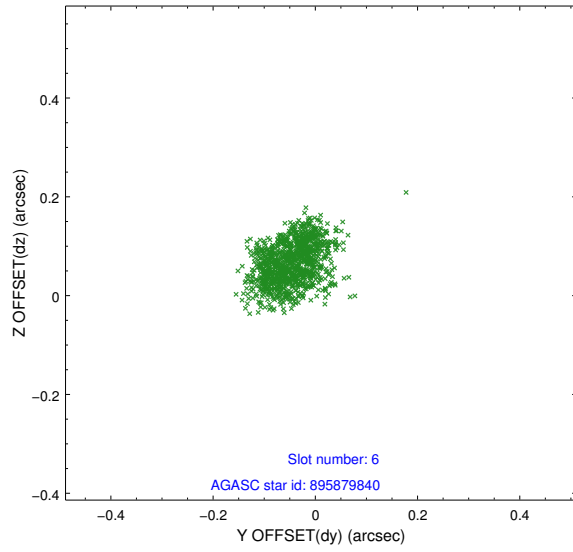
## 2.4.2 Slot 4



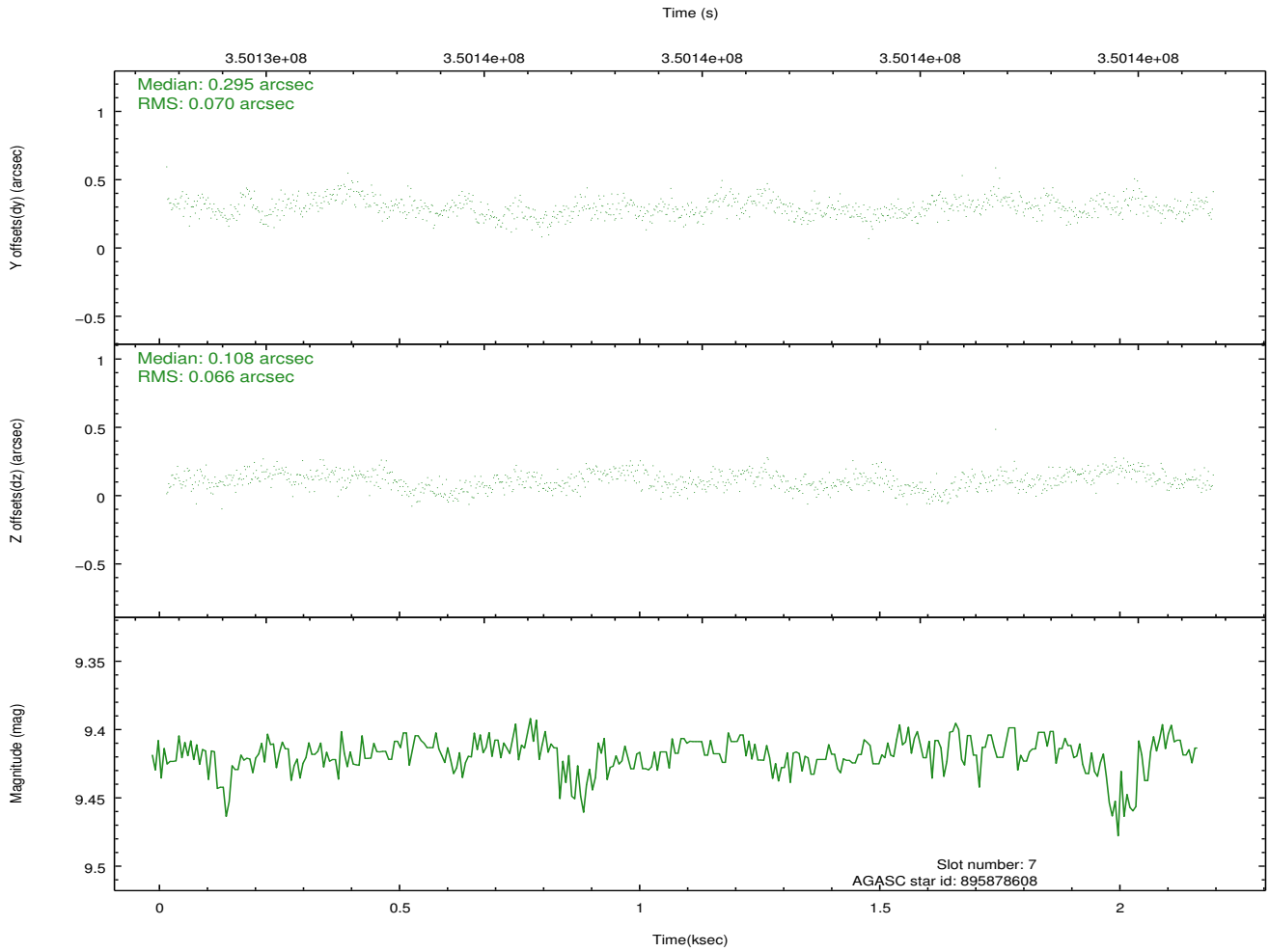
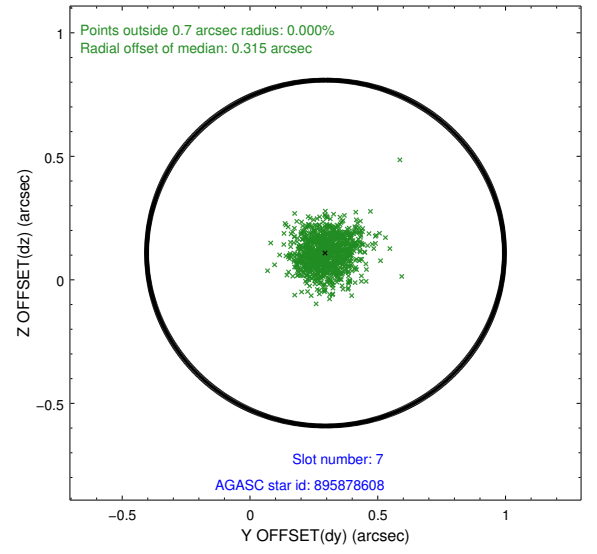
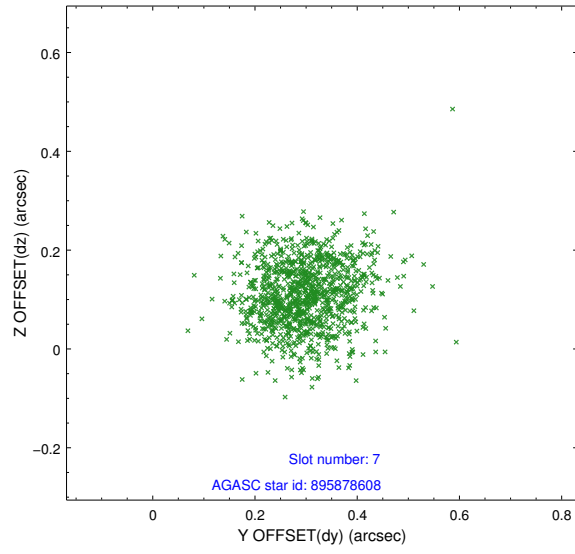
### 2.4.3 Slot 5



## 2.4.4 Slot 6

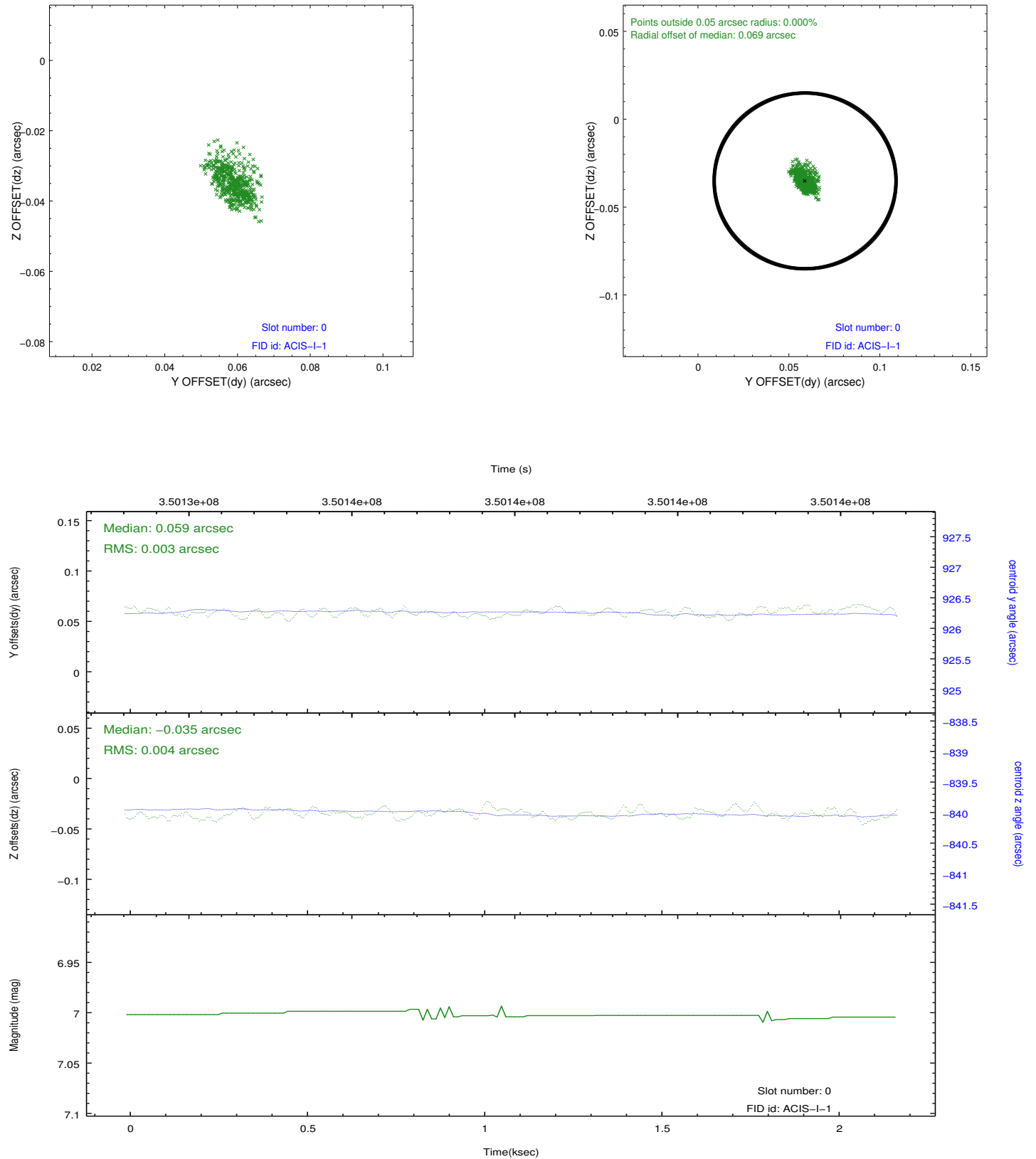


## 2.4.5 Slot 7

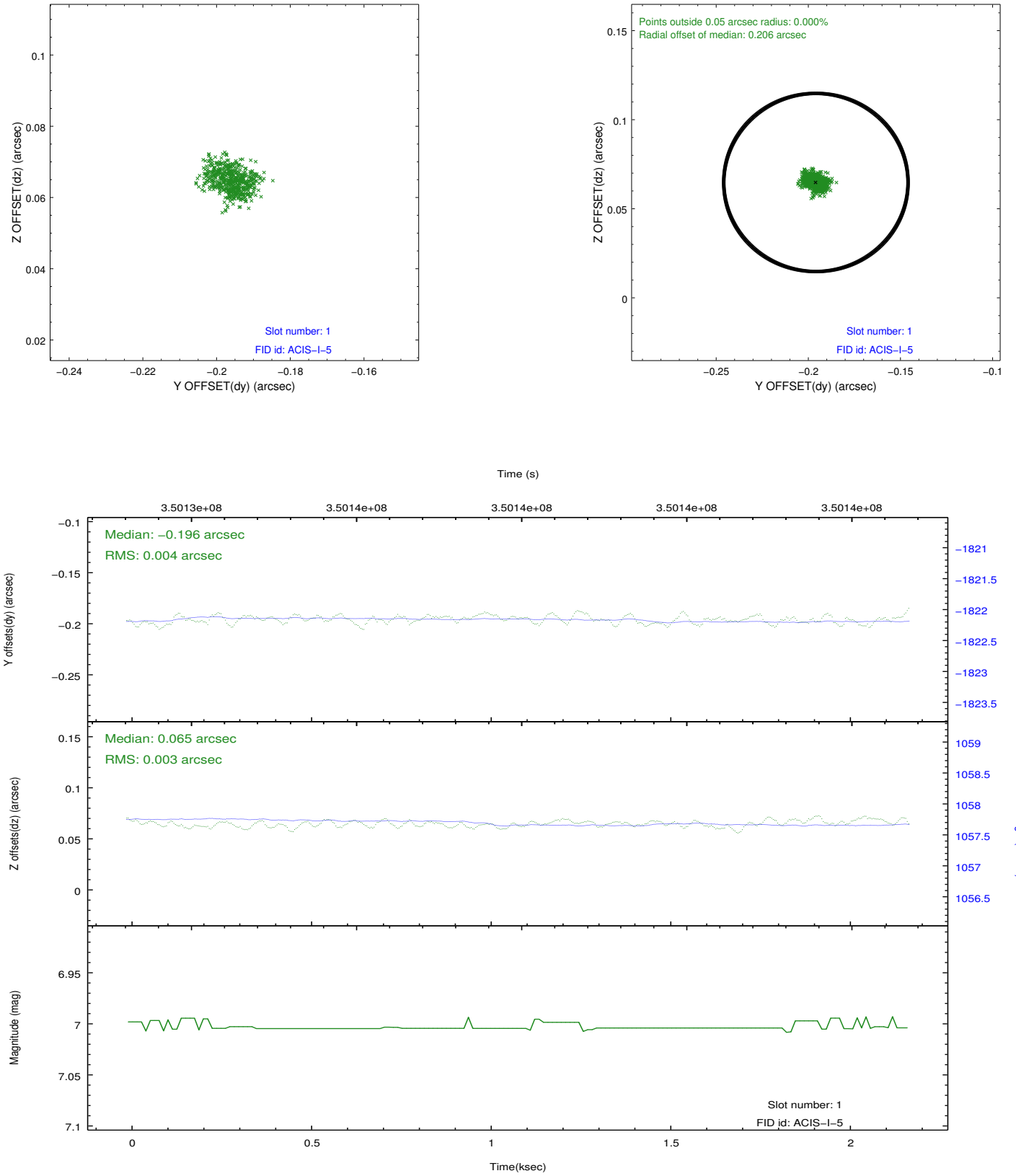


## 2.5 FID Slots

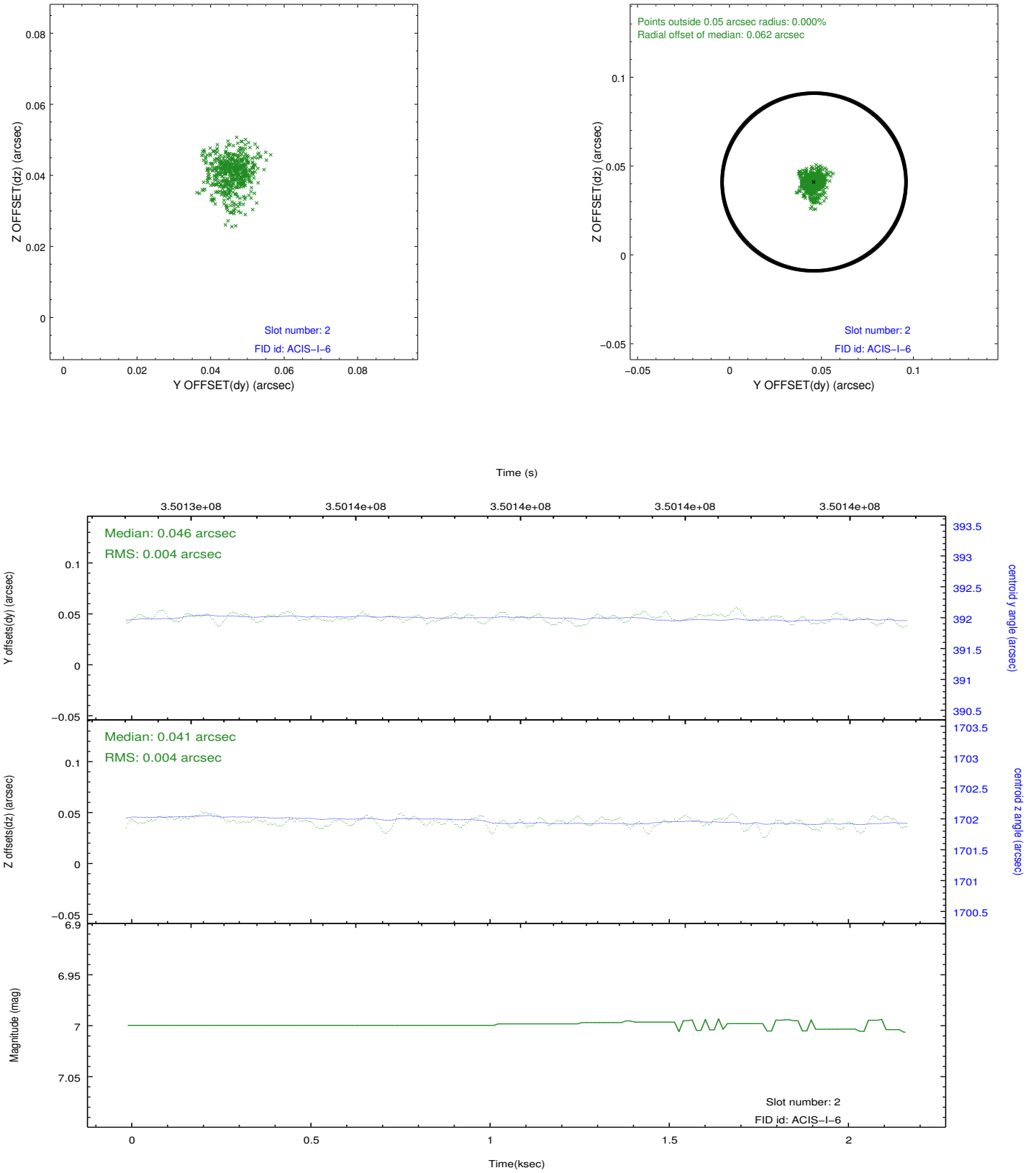
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.17930001

### A.2 Comments

Joint Proposal:NOAO